Index to Volume XIV

Authors and Titles

ARNOLD, B. C.:
Mycorrhizal Infection of Germinating Seedlings of *Nothofagus solandri* var. *cliffortioides* (Hook f.) Poole, 248–250

BANNER, ALBERT H., AND DORA MAY BANNER:
Contributions to the Knowledge of the Alpheid Shrimp of the Pacific Ocean.
Part V. The Indo-Pacific Members of the Genus *Athanas*, 129–155
Part VI. *Prionalpheus*, a New Genus of the Alpheidae, 292–298
Part VII. On *Metabetaeus* Borradaile, with a New Species from Hawaii, 299–303

BARY, B. M.:
Notes on Ecology, Distribution, and Systematics of Pelagic Tunicata from New Zealand, 101–121

BOVBJERG, RICHARD V.:
Courtship Behavior of the Lined Shore Crab, *Pachygrapsus crassipes* Randall, 421–423

BROWNLIE, G.:
Studies on Pacific Ferns, Part I. Nomenclature Changes and Distributions of Some Species of *Hymenophyllum, Arthropteris, Microlepia, Oleandra*, and *Adiantum*, 242–245
Studies on Pacific Ferns, Part II. *Humata* and *Ctenopteris*, 400–402

BURNETT, G. F.:
The Arrival of *Aedes* (*Ochlerotatus*) *vigilax* (Skuse) in Fiji, 389–394

CUTRESS, CHARLES E., AND WILLIS E. PEQUEGNAT:
Three New Species of Zoantharia from California, 89–100

GARTH, JOHN S.:
Pinnixa daruini, a New Species of Pinnotherid Crustacean from the Galapagos Islands, 39–42

GOSLINE, WILLIAM A.:
A New Hawaiian Percoid Fish, *Suttonia lineata*, with a Discussion of Its Relationships and a Definition of the Family Grammistidae, 28–38
Hawaiian Lava-Flow Fishes, Part IV. *Snyderidia canina* Gilbert, with Notes on the Osteology of Ophidioid Families, 373–381

GRICE, GEORGE D., AND EVERET C. JONES:
Two New Species of *Candacia* (Copepoda: Calanoida) from the Central Pacific, with Notes on Two Other Species, 280–291

HELD, EDWARD E.:
Land Crabs and Fission Products at Eniwetok Atoll, 18–27

HYMAN, LIBBIE H.:
Second Report on Hawaiian Polyclads, 308–309

ILLG, PAUL L.:
Marine Copepods of the Genus *Anthessius* from the Northeastern Pacific Ocean, 337–372

IWAI, TAMOTSU:
Luminous Organs of the Deep-sea Squaloid Shark, *Centroscyllium ritteri* Jordan and Fowler, 51–54

KNUDSEN, JENS W.:
Reproduction, Life History, and Larval Ecology of the California Xanthidae, the Pebble Crabs, 3–17

KURODA, NAGAHISA:
Analysis of Sea Bird Distribution in the Northwest Pacific Ocean, 55–67

LUOMALA, KATHERINE:
A History of the Binomial Classification of the Polynesian Native Dog, 193–223

MARPLES, B. J.:
Spiders from Some Pacific Islands, Part IV. The Cook Islands and Niue, 382–388

MARTIN, EDGAR J.:
Observations on the Toxic Sea Anemone, *Rhodactis howesii* (Coelenterata), 403–407

MARTIN, W. E.:
Hawaiian Helminths, Part III. New Opecoelid Trematodes, 411–415

MATSUMOTO, WALTER M.:
Notes on the Hawaiian Frigate Mackerel of the Genus *Auxis*, 173–177

MILLER, HARVEY ALFRED:
Remarks on the Succession of Bryophytes on Hawaiian Lava Flows, 246–247

MURPHY, GARTH I.:
Introduction of the Marquesan Sardine, *Harengula vittata*, to Hawaiian Waters, 185–187

NEWELL, IRWIN M.:
Charadracarus new genus, Charadracarinae new subfamily (Acari, Johnstonianidae), and the Status of *Typhlothrombium* Berlese 1910, 156–172

OTSU, TAMIO:
Albacore Migration and Growth in the North Pacific Ocean as Estimated from Tag Recoveries, 257–266

PARAMONOV, S. J.:
Lord Howe Island, a Riddle of the Pacific, Part II, 75–85

RANDALL, JOHN E.:
A New Species of *Acanthurus* from the Caroline Islands, with Notes on the Systematics of Other Indo-Pacific Surgeonfishes, 267–279

RIFFENBURGH, ROBERT H., AND CHARLES W. CLUNIES-ROSS:
Linear Discriminant Analysis, 251–256

ST. JOHN, HAROLD:
Revision of the Genus *Pandanus* Stickman, Part 1. Key to the Sections, 224–241
Flora of Eniwetok Atoll, 313–336

STRASBURG, DONALD W.:
A New Hawaiian Engraulid Fish, 395–399

STONE, BENJAMIN C.:
Corrections and Additions to the Flora of the Hall Islands and to the Flora of Ponape, 408–410
Flora Malesiana: A Review, 423–424

STRAHAN, R.:
A Comparison of the Ammocoete and Macrophthalmia Stages of *Mordacia mordax* and *Geotria australis* (Petromyzonidae), 416–420

SWANHOLM, CARL E., HAROLD ST. JOHN, AND PAUL J. SCHEUER:
A Survey for Alkaloids in Hawaiian Plants, II, 68–74

TAYLOR, R. W.:
Taxonomic Notes on the Ants *Ponera leae* Forel and *Ponera norfolkensis* (Wheeler) Hymenoptera-Formicidae), 178–180

TESTER, ALBERT L.:
Fatal Shark Attack, Oahu, Hawaii, December 13, 1958, 181–184

UTINOMI, HUZIO:
On the World-Wide Dispersal of a Hawaiian Barnacle, *Balanus amphitrite kauaiiensis* Broch, 43–50

WINKLER, LINDSAY R.:
Localization and Proof of Chitin in the Opisthobranch Mollusks *Aplysia californica* Cooper and *Bulla gouldiana* (Pilsbry), with an Enzymochromatographic Method for Chitin Demonstration, 304–307

WOODWICK, KEITH H.:
Early Larval Development of *Polydora nuchalis* Woodwick, a Spionid Polychaete, 122–128

Subjects

Acanthurus achilles, 277
achilles × *A. glaucopareius* = *A. rackliffei*, 270–271
bleekeri, 277
chronixis, n. sp., 267–269
coeruleus, 274
gahhm, 277
glaucopareius, 277
guttatus, 277
leucocheilus, 272
leucosternon, 271–272
lineatus, 272, 277
melanosternon, 272
nigrofuscus, 277
nigroris, 277
nubilis, 271
olivaceus, 274, 275, 277
philippinus, 272
sohal, 268, 272
tennenti, 272
triostegus, 271, 277
xanthopterus, 277
Achyranthes aspera, 325
velutina, 325
Acronurus formosus, 272
Acropoma, 53
Adiantum aneitense, 245
fulvum, 245
novae-caledoniae, 245
Aedes aegypti, 391
pseudoscutellaris, 391–393
vexans, 390
vigilax, 389–394
Aitutakia armata, n. gen. and n. sp., 386–387
Aleurites moluccana, 329
Allium Cepa, 329
Alpheopsis diabolus, 293
equalis, 293
fissipes, 293
idiocarpus, 293
tetrarthri, 293
triarticulatus, 293
Amaranthus dubius, 325
viridis, 326
Anthessius, 340–341
fitchi, n. sp., 364–371
hawaiiensis, 341–345
lighti, n. sp., 351–356
navanacis, 345–351
nortoni, n. sp., 357–364
Apiacera minuta, 385
Aplonis fuscus hullianus, 77
Aplysia californica, 304–307
Apogen ellioti, 54
marginatus, 54
Aporops alfreei, 28, 29
bilinearis, 28, 29
japonicus, 28, 29
Arete, annotated bibliography of the species of, 129; 133–134
Artema mauriciana, 385
Arthropteris neocaledonica, 244
Artocarpus incisus, 324
Athamas whitmei, 386
Athanas, annotated bibliography of the species of, 129–133
redefined, 135–137

Athanas areteformis, 138–140
djiboutensis, 140–141
dorsalis, 151–154
esakii, 146–147
indicus, 149–151
iphianassa, 150
marshallensis, 142
parvus, 141–142
rhothionastes, n. sp., 142–146
verrucosus, n. sp., 147–149
Auxis thazard, 174–176
thynnoides, 174–176

Balanus amphitrite var. *albicostatus*, 48
communis, 44–49
denticulatus, 43–49
eburneus, 43
franciscanus, 46
hawaiiensis, 43–50
herzi, 46
improvisus, 43
krugeri, 48
saltonensis, 46
venustus, 46
Baria aericeps, 386
Belostoma indicum, 79
Boerhavia diffusa var. *diffusa*, 326
var. *tetrandra*, 326
Brassica oleracea capitata, 327
pekinensis, 327–328
Bryophytes on lava flows, 246–247
Bufo marinus, 403–406
Bulla gouldiana, 304–307

Caesalpinia Bonduc, 328
Canavalia microcarpa, 328
Cancer magister, 3
Candacia guggenheimi, n. sp., 285–288
norvegica, 288–289
pofi, n. sp., 280–285
truncata, 288
Carica Papaya, 331
Caridina brevirostris, 302
Cassytha filiformis, 327
Cenchrus Brownii, 321
Centroscyllium fabricii, 51, 53
granulatum, 51, 53
nigrum, 51
ornatum, 51
ritteri, 51–54
Chaetopterus variopedatus, 41, 42
Charadracarus, new genus, 156–172
aelleni, n. comb., 171–172
delitescens, n. sp., 165–171
grandjeani, n. comb., 171
hurdi, n. sp., 165
Charadracinae, new subfamily, 156–157
Chauliodus sloani, 54
Chiracanthium furax, 385

Chitin in mollusks, 304–307
Chloris inflata, 322
Citrullus vulgaris, 333
Clubiona alveolata, 385
Cocos nucifera, 324
Coenobita perlatus, 18–27
Coitocaecum banneri, n. sp., 411–412
hawaiiensis, n. sp., 412
norae, n. sp., 412–413
Conopistha samoensis, 386
unimaculata, 386
Cordia subcordata, 332
crabs, land hermit, 18–27
crabs, pebble, 3–17
Crinum asiaticum, 324
Ctenochaetus binotatus, 274
cyanoguttatus, 273
hawaiiensis, 275
magnus, 273
striatus, 273
strigosus, 273, 274; 413
Ctenopteris crassifrons, 401
hornei, 402
seemanni, 401–402
Cucumis Melo, 333
Cucurbita maxima, 334
Culex annulirostris, 391
sitiens, 391
Cyanorhamphus novaezeelandiae subflavescens, 76
Cycloxanthops novemdentatus, 3–17
Cynodon Dactylon, 322
Cyperus javanicus, 323–324
odoratus, 324
pennatus, 323–324
Cyrtophora moluccensis, 388
Cytaea piscula, 386

Dactyloctenium aegyptium, 322
Digitaria pruriens, 322
Dioclea reflexa, 328
Dirofilaria immitis in Fiji, 391–393
Dixonia antarctica, 82
Doliolum (*Dolioletta*) *valdiviae*, 104–108, 115
Drassoides ciusi, 385
Dyschiriognatha oceanica, 387
upoluensis, 387

Eleusine indica, 322
Elminius modestus, 43, 48
Eniwetok atoll, fission products at, 18–27
flora of, 313–336
Entada phaseoloides, 328
Epeira theisi, 388
Epizoanthus gabrieli, n. sp., 98–99
induratum, n. sp., 95–98
leptoderma, n. sp., 93–95
Eragrostis amabilis, 322
Erigeron albidus, 334
bonariensis, 334

Etmopterus frontimaculatus, 52, 53
lucifer, 51–53
Eupagurus bernhardus, 21
Euphorbia Chamissonis, 329
hirta, 329
thymifolia, 329

Fimbristylis atollensis, 324
fission products at Eniwetok Atoll, 18–27
Flacilla minuta, 386
Fleurya ruderalis, 325
Flora Malesiana: A Review, 423–424

Gallinula alba, 75
Gamasomorpha loricata, 385
Gehyra oceanica, 78
Geotria australis, 416–420
Germo alalunga, 257–266
Gerygone insularis, 77
Grammistidae, definition of, 28–38
Guettarda speciosa, 333

Hall Islands, flora of, 408–410
Hemiodoecus fidelis, 81
leai, 81
veitchi, 81
wilsoni, 81
Hernandia sonora, 327
Heteropoda venatoria, 385
Humata hotrychioides, 401
serrata, 400–401
sessilifolia, 400
Hymenophyllum affine, 242
denticulatum, 243
dimidiatum, 243
howense, n. sp., 244
macgillivrayi, 242–243
moorei, 244
piliferum, 243
praetervisum, 243–244
pseudotunbridgense, 242–243
pumilio, 243
subdimidiatum, 243
Hymenosoma lacustris, 78

Iassis zonaria, 108, 115
Ihlea magalhanica, 110, 117–118
Ipomoea pes-caprae subsp. *brasiliense*, 331–332
purpurea, 332
tuba, 332
Ischnothyreus lanutoo, 385

Janthoenas godmanae, 76

Lacertilia spp., 78
Lactuca sativa, 334
?Lagenaria siceraria, 334
Lepturus repens, 322
var. *occidentalis*, 323
Leucauge tuberculata, 387
Linyphia tuasivia, 386
Lophopanopeus bellus diegensis, 3–17
leucomanus leucomanus, 3–17
Lord Howe Island, 75–85
Lycosa tongatabooensis, 385
Lygosoma lichenigerum, 78

Malvastrum coromandelianum, 330
Menemerus bivittatus, 386
Messerschmidia argentea, 332
Metabetaeus lohena, n. sp., 299–303
minutus, 299–303
Metridium senile, 406
Microlepia speluncae, 244–245
Microsorium Scolopendria, 320
Mirabilis Jalapa, 326
Mollicia microphthalmia, 386
Mordacia mordax, 416–420
Morinda citrifolia, 333
Mucuna urens, 328
Mulloidichthys samoensis, 414
Mycorrhiza, 248–250
Mysmena phyllicola, 386

Naso literatus, 277
rigoletto, 276–277
unicornis, 277
Nephila prolixa, 388
Nesozosterops strenua, 76
new genus:
Aitutakia, 386
Charadracarus, 156–172
News Notes:
A Handbook of Hawaiian Fishes, 188–189
Pacific Insects, 189
new species:
Acanthurus chronixis, 267–269
Aitutakia armata, 386–387
Anthessius fitchi, 364–371
lighti, 351–356
nortoni, 357–364
Athanas rhothionastes, 142–146
verrucosus, 147–149
Candacia guggenheimi, 285–288
pofi, 280–285
Coitocaecum banneri, 411–412
hawaiiensis, 412
norae, 412–413
Epizoanthus gabrieli, 98–99
induratum, 95–98
leptoderma, 93–95
Hymenophyllum howense, 244
Metabetaeus lohena, 299–303
Opecoelus lanceolatus, 414
Pandanus (*Australibrassia*) *cochleatus*, 236–239
conicus, 234–236
(*Lateriobtutus*) *biakensis*, 231–234
(*Maysops*) *Zea*, 239–241

Parazoanthus lucificum, 90–93
Pinnixa daruini, 39–42
Prionalpheus triarticulatus, 293–296
Pseudopecoeloides tenuoides, 414–415
Stolephorus buccaneeri, 395–399
Suttonia lineata, 28–38
Thysanozoon hawaiiensis, 308–309
new subfamily:
Charadracinae, 156–157
New Zealand, pelagic tunicates from, 101–121
Nicottana glauca, 332
Ninox hoohooc, 77
Notes:
Courtship Behavior of the Lined Shore Crab, *Pachygrapsus crassipes* Randall, 421–422
Fatal Shark Attack, Oahu, Hawaii, December 13, 1958, 181–184
Flora Malesiana: A Review, 423–424
Introduction of the Marquesan Sardine, *Harengula vittata*, to Hawaiian waters, 185–187
Nothofagus solandri var. *cliffortioides*, 248–250
Notornis albus, 75–76

Ochrosia oppositifolia, 331
Ocydromus (*Nesolimnas*) *sylvestris*, 76
Oikopleura dioica, 102–103, 113
fusiformis, 102, 110–112
Oleandra neriiformis, 245
Oonopinus oceanicus, 385
Opecoelus lanceolatus, n. sp., 414

Pachygrapsus crassipes, 3, 421–422
Pandanus, revision of the genus, 221–241
sections of the genus:
subgenus *Lophostigma*:
Acrostigma, 226
Asterostigma, 226
Cristata, 226
Lophostigma, 225, 226, 227, 228
Maysops, 227, 239
Microstigma, 227
Pulvinistigma, 227–228
Rykia, 228
Rykiella, 228
subgenus *Pandanus*:
Acanthostyla, 228
Australibrassia, 228, 234
Coronata, 228
Dauphinensia, 228
Foullioya, 226
Hombronia, 228–229
Intraobtutus, 229
Lateriobtutus, 229, 231
Mamillaristia, 229
Martillidendron, 229
Multispina, 229
Pandanus, 228–230
Stephanostigma, 230
Vinsonia, 230
Pandanus (*Australibrassia*) *cochleatus*, n. sp., 236–239
conicus, n. sp., 234–236
(*Lateriobtutus*) *biakensis*, n. sp., 231–234
(*Maysops*) *Zea*, n. sp., 239–241
Pandanus brachypodus, 320
enchabiensis, 320
korrorensis, 320
odoratissimus var. *novocaledonicus*, 321
var. *novoguineensis*, 321
pulposus, 321
rectangulatus, 321
rhombocarpus, 321
Utiyamai, 321
Paraplanocera oligoglena, 308
Peasia reticulata, 308
tentaculata, 309
Phaseolus vulgaris, 328
Pholcomma soloa, 386
Pholcus ancoralis, 385
Phyllanthus amarus, 329–330
Phymatodes Scolopendria, 320
Physalis angulata var. *angulata*, 333
Physocyclus globosus, 385
Pinnixa daruini, n. sp. 39–42
faxoni, 41, 42
transversalis, 39–42
Pisonia grandis, 326
Pluchea indica, 334
odorata, 334
Poicilochroa rollini, 385
Polydora nuchalis, 122–128
Polynesian native dog, 193–223
Polypodium Phymatodes, 320
Ponape, flora of, 408–410
Ponera caledonica, 178–180
leae, 178–180
norfolkensis, 178–180
tenuis, 178–180
Porphyrio albus, 75–76
Portulaca lutea, 326–327
oleracea, 327
Priacanthus cruentatus, 415
Prionalpheus, n. gen., 292–293
samoensis, 327
triarticulatus, n. sp., 293–296
Pseudoceros affinis, 309
Pseudogramma brederi, 29
guineensis, 28, 29
polyacantha, 29
Pseudopecoeloides tenuoides, n. sp., 414–415
Pyrosoma atlanticum, 103–104, 113–114
spinosum, 104, 113–114

radioactivity at Eniwetok, 18–27
Raphanus sativus, 328
Rhegma bermudensis, 29
gregoryi, 28, 29
thaumasium, 29

Rhipidura flabellifera cervina, 77
Rhizophora Mangle, 331
Rhodactis howesii, 403–407
Rhynchelytrum repens, 323
Ricinus communis, 330

Salpa fusiformis f. *aspera*, 109–110, 117
Sapindus Saponaria, 330
Scaevola frutescens var. *frutescens*, 334
var. *sericea*, 334
Scotophilus morio, 75
Scytodes marmorata, 385
striatipes, 385
sea bird distribution in the northwest Pacific Ocean, 55–67
Setaria verticillata, 323
Sida fallax, 330–331
Smeringopus elongatus, 385
Snyderidia canina, 373–381
Solanum Lycopersicum, 333
Sorghum bicolor var. *technicum*, 323
Stolephorus buccaneeri, n. sp., 395–399
purpureus, 395–399
Suriana maritima, 329
Suttonia lineata, n. sp., 28–38
suttoni, 28, 29
Syrorisa mumfordi, 383

Tacca Leontopetaloides, 324–325
Terminalia samoensis, 331
Tetragnatha macilenta, 387
panopea, 387
Thalassoma duperrey, 412
Thalia democratica, 108–109, 115–116
Theridion albostriatum, 386
aleipata, 386
Thorellia ensifera, 386
Thuarea involuta, 323
Thysanozoon hawaiiensis, n. sp., 308–309
Tribulus cistoides, 329
Tricachne insularis, 323
Tricholaena repens, 323
Triumfetta procumbens, 330
Turdus xanthropus vinitinctus, 76–77
Typhlothrombium, status of, 156–172
histricinum, 156

Uloborus geniculatus, 383

Verononia cinerea, 334–335
Vespadelus pumilus, 75
Vigna marina, 328–329

Wedelia biflora, 335
Wucheraria bancrofti in Fiji, 391–393

Xanthidae, of California, 3–17
Xenophyes cascus, 81
Ximenia americana, 325

Zea Mays, 323
Zebrasoma flavescens, 276
rostratum, 276
scopas, 276
velliferum, 272
Zinnia elegans, 335
Zosterops lateralis, 77